TELTONIKA
GSM Desktop Phone
DPH200

User Manual v1.01

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ATTENTION

Before using the device we strongly recommend read this user manual.

Do not rip the device. Do not touch the device if the device block is broken or its connecting wires are without isolation.

All wireless devices for data transferring may be susceptible to interference, which could affect performance.

The device is not water-resistant. Keep it dry.

The device requires high 230V AC voltage.

IMPORTANT NOTES!
It is mandatory to read the notes and manual carefully before starting to use the device.

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1 SAFETY INFORMATION

In this document you will be introduced how to use GSM Desktop Phone safely. We suggest you to adhere to following recommendations to avoid any damage to person or property. You have to be familiar with the safety requirements before starting to use the device!

Device requires power supply source that satisfies all safety requirements listed in LST EN 60950-1 standard. Each power supply source should not exceed 15VA.

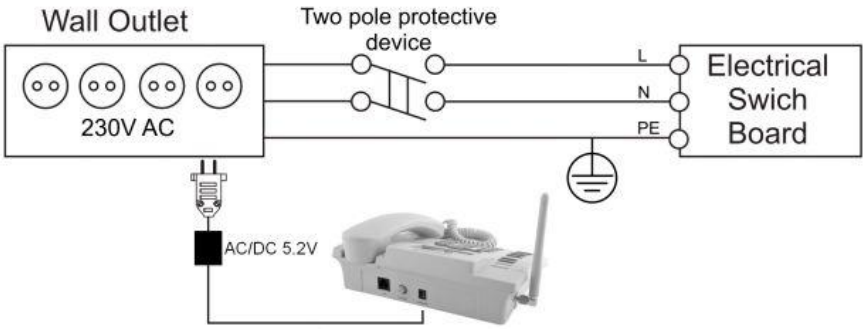
Socket RJ45 is used for device firmware upgrade. Only qualified personnel with proper equipment can upgrade the device.

Do not mount or serve device during a thunderbolt.

To disconnect power for the device please do the following:

- Plug off AC/DC power adapter from the wall outlet.
- Turn off using power on/off button.

To avoid mechanical damages of the device it is recommended to transport the device packed in damage-proof pack. Protection against over currents, short circuits and earth faults should be provided as a part of the building installation. Additional two pole protective device is required to protect from short-circuit and earth false. The power of connected device should satisfy power of release device. The creepage distance between contacts should be no less than 3mm. While using the device, it should be placed so, that it would be possible easy to plug off AC/DC power adapter from the wall outlet.



Signal level of the device depends on the environment in which it is working. If the device starts working insufficiently only qualified personnel may repair this product. We recommend to forward it to repair centre or to manufacturers. No exchangeable parts inside of the device.

2 GETTING STARTED

Package Contents

A. Handset with cable
B. Phone device
C. Battery
D. Power supply adapter
E. External GSM Antenna
F. User guide

Note: If any of the components are missing or damaged, please contact the retailer or reseller from which this product was purchased.

Inserting SIM card

Note: SIM card is mandatory for setting up connection to the GSM network. If you don't have s SIM card please contact your network service provider.

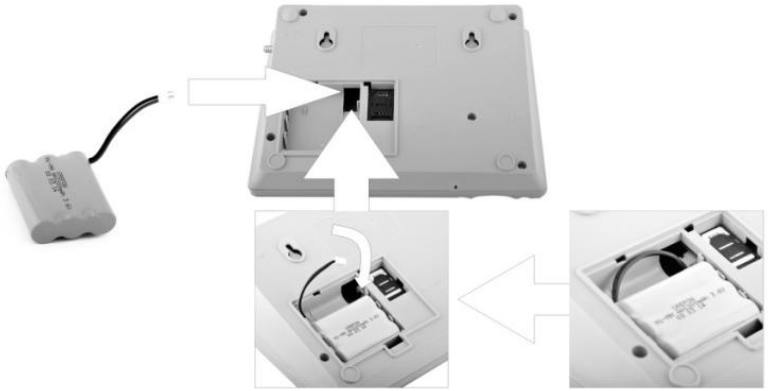
1. Remove the power supply if it was connected
2. Remove cover

3. Open SIM card holder and gently insert SIM card in the slot

4. Close SIM card holder

Connecting back up battery

Battery is under the same cover as the SIM card. To install the battery plug the battery connector in to the battery socket.



Connect handset

Connect one handset cable end to handset and another to the phone jack.

Attach antenna

Screw the antenna in a clockwise direction.

Position the antenna upwards at its connecting joint. This will ensure optimal reception.

Wall mounting

GSM desktop phone can be mounted on the wall. Device has two holes for mounting as shown in figure below:

To mount device on the wall please do the following:

1. Mark two holes location 115mm horizontally apart and drill two holes in the wall.
2. Install the screws (not supplied) into the wall, leaving a gap of approximately 3 mm between screw head and wall.
3. Mount the GSM desktop phone on holes with screws.

Turning on GSM desktop phone

Before turning on the phone make sure that:

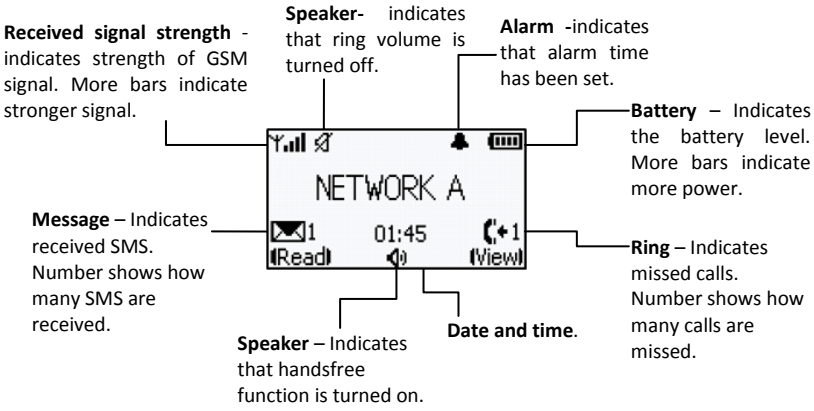
- SIM card is inserted
- Battery is connected (not necessary)
- Antenna is attached
- Handset is connected to the phone
- Power adapter is connected

After all these operations are done you can switch the phone on by pushing the power button on a back panel. After the device is switched on it will start up. LCD screen will display information that the phone is starting up. To turn off the phone press the same button again.

3 PHONE OVERVIEW

3.1 Description of the phone

3.2 LCD screen icons


Received signal strength - indicates strength of GSM signal. More bars indicate stronger signal.
Speaker- indicates that ring volume is turned off.
Alarm -indicates that alarm time has been set.
Battery – Indicates the battery level. More bars indicate more power.
NETWORK A
Message – Indicates received SMS. Number shows how many SMS are received.
1
01:45
1
(Read)
(View)
Ring – Indicates missed calls. Number shows how many calls are missed.
Speaker – Indicates that handsfree function is turned on.
Date and time.

3.3 DPH200 menu structure

User friendly menu navigation allows reach all GSM Desktop phone features. To enter the Menu functions press the functional "Menu" key. Menu can be browsed using arrow keys ↑ ↓ located below the LCD screen. When the wanted menu function is highlighted press ← (OK) to enter or → (Exit) to exit. Menu structure is shown below:

Messages:
Create message
Inbox
Clear inbox
Message settings

Call register:
Missed calls
Received calls
Dialed numbers
Clear lists

Contacts:
Phone book
Speed dial
New contact

Settings:
Language
Sound
Call services
Time and date
Security
Misc
Factory reset

4 CALL FUNCTIONS

4.1 Making calls

- Pick up the handset or press the speaker phone key.
- Listen for dial tone.
- Type the phone number, then press dial or wait for 5s.

Note: To input the "+" character press and hold "0" key.

Correcting dialed number

- To delete one digit press the delete key once.
- To delete all digits press the delete key until all digits are cleared.

Redial last dialed number

- Press the dial key.
- Use arrow keys ↑ ↓ to select number.
- Pick up the handset.

4.2 Receiving calls

Answering call

To answer the call, pick up the handset or press the speaker phone key.

Refusing call

To refuse call press arrow key → (LCD displays *Disconn.*)

Note: incoming call number is displayed on the LCD. The ID and call number is displayed on the LCD if the number is stored in the phone book.

Note: If there are missed calls the picture "Ring" on the LCD screen is displayed. Number near picture shows how many calls where missed.

4.3 Ending calls

To end a call place the handset back onto the cradle or press the spearkerphone key if using the handsfree feature.

4.4 In call functions

Adjust volume

While in call press keys ↑↓ to increase or decrease speech volume.

Call transfer

- During call press ← (*Hold*), then again same key ← (*Options*)
- Select *New call* and press ← (*OK)*
- Enter a number or press ← (Phone book)
- Press key ← (*Options*), Select *Transfer* and press ← (*OK*)

5 SMS

GSM Desktop phone allows sending and receiving SMS text messages. Each SMS message can have a maximum of 160 characters. Contact your service provider to activate SMS.

5.1 Read SMS

Read received message

When a new message is received picture "Message" on the LCD screen is displayed. To read the message press ← (*Read*)

Read message from inbox

- Press the *MENU* key
- Select *Messages* by using arrow keys and press ← (*OK*)
- Select *Inbox* by using arrow keys ↑↓ and press ← (*OK*)
- Select message from the list using arrow keys↑ ↓ and press ← (Read)

Reply to Received Messages

- View the desired message
- Press ← (*OPTIONS*)
- Select *Reply* to reply with a text message and press ← (*OK*)
- Type the phone number or use phone book to select addressee

Forward Text Message

- View the desired message
- Press ← (*OPTIONS*)
- Select *Forward* to forward text message and press ← (*OK*)
- Type the phone number or use phone book to select addressee

5.2 Send SMS

- Press *SMS* key
- Type the text using number key pad and press ← (*Send*)
- Type the phone number or use phone book to select addressee

5.3 Delete SMS

- Press the *MENU* key
- Select *Messages* by using arrow keys and press ← (*OK*)
- Select *Inbox* by using arrow keys ↑↓ and press ← (*OK*)
- Select message from the list using arrow keys↑ ↓ and press ← (Read)
- Press ← (*OPTIONS*)
- Select *Delete* to delete text message and press ← (*OK*)

5.4 Message Settings

Message Center

- Press the *MENU* key
- Select *Messages* by using arrow keys and press ← (*OK*)
- Select *Message settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Service center* by using arrow keys ↑↓ and press ← (*OK*)
- Enter the number that your service provider gave you and press ← (*OK*)

Note: If the number is already entered, press ← (OK).

Message Lifetime

- Press the *MENU* key
- Select *Messages* by using arrow keys and press ← (*OK*)
- Select *Message settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Validity period* by using arrow keys ↑↓ and press ← (*OK*)
- Using arrow keys select preferred messages lifetime and press ← (*OK*)

Note: Message lifetime is the amount of time that an unread message will remain on the network server before being removed.

6 ADDITIONAL FEATURES

6.1 Date and Time Settings

Set the time

- Press the *MENU* key
- Select *Settings* by using arrow keys and press ← (*OK*)
- Select *Time and date* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Adjust time*, set time using number keypad and press ← (*OK*)
- Using number keypad or arrow keys ↑↓ set time and press ← (*OK*)

Change the time format

- Press the *MENU* key
- Select *Settings* by using arrow keys and press ← (*OK*)
- Select *Time and date* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Time format*, set time format using arrow keys ↑↓, press ← (*OK*)
- Using number keypad or arrow keys ↑↓ set time and press ← (*OK*)

Set the date

- Press the *MENU* key
- Select *Settings* by using arrow keys and press ← (*OK*)
- Select *Time and date* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Adjust date*, set time using number keypad and press ← (*OK*)
- Using number keypad or arrow keys ↑↓ set time and press ← (*OK*)

Change the date format

- Press the *MENU* key
- Select *Settings* by using arrow keys and press ← (*OK*)
- Select *Time and date* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Date settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Date format*, set date format using arrow keys ↑↓, press ← (*OK*)

Turn On/Off date display on the LCD screen

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Time and date* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Date settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Show date,* select *ON* or *Off* using arrow keys ↑↓, press ← (*OK*)

6.2 Address Book

GSM desktop phone stores all contacts in the SIM card. Depending on the SIM (SIM cards may have different memory capacities) card phonebook capable of storing up to 240 telephone numbers with names.

Note: To dial a number from the Phonebook pick up the handset and press → (Phone book).

Add new contact

- Press the *MENU* key
- Select *Contacts* by using arrow keys ↑↓ and press ← (*OK*)
- Select *New contact* using arrow keys ↑↓ and press ← (*OK*)
- Using number keypad enter name and press ← (*OK*)
- Using number keypad number and press ← (*OK*)

Note: To input the "+" character press and hold "0" key.

Edit Contact in the phone book

- Press the *NAMES* key
- Press key ← (*Options)*
- Select *Edit contact* using arrow keys ↑↓ and press ← (*OK*)
- Edit the name and press ← (*OK*)
- Edit the number and press ← (*OK*)

Contact Delete

- Press the *NAMES* key
- Press key ← (*Options)*
- Select *Delete* using arrow keys ↑↓ and press ← (*OK*)

6.3 Speed Dialing

Speed dialing function allows quickly select saved number using number keypad keys (1-9). To program number keypad buttons please do the following:

- Press the *MENU* key
- Select *Contacts* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Speed dial* using arrow keys ↑↓ and press ← (*OK*)
- Select wanted keypad number arrow keys ↑↓ and press ← (*Options*)
- Select *Edit number* using arrow keys ↑↓
- Type the number and press ← (*OK*)

6.4 Audio Settings

Increase/Decrease ring volume

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Sound* using arrow keys ↑↓ and press ← (*OK*)
- Select *Ring volume* using arrow keys ↑↓ and press ← (*OK*)
- Use keys ↑↓ to increase message volume and press ← (*OK*)

Select ring tone

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Sound* using arrow keys ↑↓ and press ← (*OK*)
- Select *Ring tone* using arrow keys ↑↓ and press ← (*OK*)
- Use keys ↑↓ select wanted melody and press ← (*OK*)

Increase/Decrease message volume

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Sound* using arrow keys ↑↓ and press ← (*OK*)
- Select *Message volume* using arrow keys ↑↓ and press ← (*OK*)
- Use keys ↑↓ to Increase/Decrease message volume and press ← (*OK*)

Select message tone

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Sound* using arrow keys ↑↓ and press ← (*OK*)
- Select Message *tone* using arrow keys ↑↓ and press ← (*OK*)
- Use keys ↑↓ select wanted melody and press ← (*OK*)

Increase/Decrease speech volume

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)

- Select *Sound* using arrow keys ↑↓ and press ← (*OK*)
- Select *Speech volume* using arrow keys ↑↓ and press ← (*OK*)
- Use keys ↑↓ to Increase/Decrease message volume and press ← (*OK*)

Turn On/Off phone keypad tone

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Sound* using arrow keys ↑↓ and press ← (*OK*)
- Select *Key tone* using arrow keys ↑↓ and press ← (*OK*)
- Using arrow keys ↑↓ select *On* or *Off* and press ← (*OK*)

6.5 Alarm

The alarm feature can be used as an alarm clock. Alarm time and tone can be set for daily use or for one time only

Set alarm time

- Press the *MENU* key
- Select *Settings* by using arrow keys and press ← (*OK*)
- Select *Time and date* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Alarm*, and press ← (*OK*)
- Select *Alarm time*, and press ← (*OK*)
- Set time using number keypad and press ← (*OK*)
- Choose repeat alarm or not
- If repeat- select days to repeat alarm

Set alarm volume

- Press the *MENU* key
- Select *Settings* by using arrow keys and press ← (*OK*)
- Select *Time and date* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Alarm*, and press ← (*OK*)
- Select *Alarm options*, and press ← (*OK*)
- Select *Alarm volume*, and press ← (*OK*)
- Use keys ↑↓ to Increase/Decrease message volume and press ← (*OK*)

Set alarm tone

- Press the *MENU* key
- Select *Settings* by using arrow keys and press ← (*OK*)
- Select *Time and date* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Alarm*, and press ← (*OK*)
- Select *Alarm options*, and press ← (*OK*)
- Select *Alarm tone*, and press ← (*OK*)
- Use keys ↑↓ select wanted melody and press ← (*OK*)

6.6 Language Selection

To select the language use following instructions:

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Language* using arrow keys ↑↓ and press ← (*OK*)
- Using arrow keys ↑↓ select wanted language and press ← (*OK*)

6.7 Call delay

Call delay is the amount of time, for the phone before automatically making a call after dial number is entered. To set the time use following instructions:

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Call settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Dial delay* by using arrow keys ↑↓ and press ← (*OK*)
- Set delay time using arrow keys ↑↓ and press ← (*OK*)

6.8 Baby call

Call delay feature allows automatic calling after handset is picked up. The time and number are programmed. Use following instructions to enable this feature:

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Call settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Baby call* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Baby cal delay* by using arrow keys ↑↓ and press ← (*OK*)
- Select delay time and press ← (*OK*)
- Select *Baby cal number* by using arrow keys ↑↓ and press ← (*OK*)
- Enter calling number using number keypad and press ← (*OK*)

6.9 Security settings

Change PIN code

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Security* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Change PIN code* by using arrow keys ↑↓ and press ← (*OK*)
- Enter PIN code and press ← (*OK*)
- Enter new PIN code and press ← (*OK*)

Note: to change PIN code PIN code request must be enabled.

Pin code request

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Security* by using arrow keys ↑↓ and press ← (*OK*)
- Select *PIN code request* by using arrow keys ↑↓ and press ← (*OK*)
- Enter PIN code and press ← (*OK*)
- Use arrow keys ↑↓ to turn On/Off PIN code request and press ← (*OK*)

Show IMEI

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Misc* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Show IMEI* using arrow keys ↑↓ and press ← (*OK*)

Show software version

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Misc* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Show software version* using arrow keys ↑↓ and press ← (*OK*)

6.10 Restore Factory Defaults

Show software version

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Factory defaults* using arrow keys ↑↓ and press ← (*OK*)
- Confirm resetting device to factory defaults by pressing ← (*OK*)

7 SUPPLEMENTARY SERVICES (NETWORK DEPENDENT)

7.1 Call Forwarding

Call forwarding feature allows redirecting incoming calls to another telephone number, even when the device is turned off. Call forwarding options include all calls, calls that come in when the line is busy, calls that are not answered after a specified number of seconds, or calls that come in when DPH200 is not reachable (no signal or turned off).

Turn On/Off call forwarding feature

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Call settings* using arrow keys ↑↓ and press ← (*OK*)
- Select *Call forwarding* using arrow keys ↑↓ and press ← (*OK*)
- Select the desired forwarding type (All , If busy, No Answer, Not reachable), press ← (*OK*)
- Using arrow keys ↑↓ select *Enable/Disable* and press ← (*OK*)

Cancel all call forwarding

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Call settings* using arrow keys ↑↓ and press ← (*OK*)
- Select *Call forwarding* using arrow keys ↑↓ and press ← (*OK*)
- Select *Disable All* and press ← (*OK*)

7.2 Call Barring

Call barring feature allows barring of incoming or outgoing calls. The following calls barring options are available:

All outgoing - do not allow any calls to be made.
Outgoing international - do not allow international calls.
Int. ex. to home country - do not allow international calls except to home country.
All incoming - do not allow any incoming calls.
Incoming when roaming - do not allow any incoming calls if rooming
Disable all - do not allow any calls to be made or received.

Turn On/Off call barring feature

- Press the *MENU* key
- Select *Settings* by using arrow keys ↑↓ and press ← (*OK*)
- Select *Call settings* using arrow keys ↑↓ and press ← (*OK*)
- Select *Call barring* using arrow keys ↑↓ and press ← (*OK*)
- Select the desired barring type
- Using arrow keys ↑↓ select *Enable/Disable* and press ← (*OK*)

7.3 Call Waiting

Call Waiting enables notification of incoming calls when the DPH200 is on call. To respond to Call Waiting, press ← key (Answer) to answer or → key (Reject) to reject call. Press Hold to switch between incoming calls. Contact your service provider to activate Call Waiting.

Turn On/Off call waiting feature

- Press the MENU key
- Select Settings by using arrow keys ↑↓ and press ← (OK)
- Select Call settings using arrow keys ↑↓ and press ← (OK)
- Select Call waiting using arrow keys ↑↓ and press ← (OK)
- Using arrow keys ↑↓ select Enable/Disable and press ← (OK)

8 TECHNICAL SPECIFICATION

GSM Interface
Quad-Band GSM 850 / 900 / 1800 / 1900 MHz.
Output power:
class 4 (2 W) for EGSM 850/900.
class 1 (1 W) for GSM 1800/1900.

Memory
Address book up to 240 entries (SIM dependant)
SMS memory up to 30 (SIM dependant)
Call memory: 10 last dialed, 10 last received, 10 last missed

Power supply
Mains adaptor: 100 - 240 V AC / 5.2V ⎓ 1A
Built in lighting protection
Battery: NiMH 3.6V 1600 mAh
Power consumption when talking 2W (peak)
Power Consumption stand by (100mW)
Battery charging time 10 hours
Standby time: 120 hours

Temperature & humidity
Operation 0^0 to 55^0 C
Storage temperature -20^0 to 80^0 C
Humidity 10% to 90%
Storage humidity 5% to 95%

Dimensions / weight
Approx. 220 x 170 x 65 mm
Weight: Approx. 920 g

Other
External omni directional antenna (SMA)
Antenna Gain 2dBi
Port for FW update - RJ45 (UART)

9 TROUBLESHOOTING

Messages	Description	Solution
No network	1. Antenna not connected 2. No network signal or signal level to low	1. Connect antenna and wait until network is found 2. Contact your GSM network operator
Error	General error message	Contact your GSM network operator if message persists
Network timeout	Request failed to execute	Contact your GSM network operator if message persists
Error sending	Error occurred while sending SMS	1. Check Service center number under Message settings. 2. Contact your GSM network operator
Wrong format	Format of received SMS is not supported	
SIM not inserted	SIM card is not inserted	Turn device Off, insert SIM card and turn device On
SIM failure	SIM card is corrupted or missing	Turn device Off, insert valid SIM card and turn device On
SIM busy	SIM card is busy	1. Wait for SIM card to become available 2. Insert valid SIM card 3. Contact your GSM network operator
SIM wrong	Wrong SIM card is inserted	Turn device Off, insert valid SIM card and turn device On
Enter PIN	PIN code is required	1. Enter correct PIN code 2. Contact your GSM network operator
Enter PIN2	PIN2 code is required	1. Enter correct PIN2 code 2. Contact your GSM network operator
Enter PUK	PUK code is required	1. Enter correct PUK code 2. Contact your GSM network operator
Enter PUK2	PUK2 code is required	1. Enter correct PUK2 code 2. Contact your GSM network operator
Service not available	Service requested is not available	Contact your GSM network operator for available services
Service not subscribed	Service requested is not subscribed	Contact your GSM network operator for available services
Service code error	Error occurred while executing service request	Contact your GSM network operator for available services
Phone book error	Error occurred during initialization of Phone book	Replace SIM card if error persists
Inbox error	Error occurred during initialization SMS inbox	Replace SIM card if error persists
Inbox full	SMS inbox is full	Delete some/all messages to be able to receive new SMS messages